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APPLICATION N	O	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/089,040		04/16/2002	Yoshio Umezawa	2002-0426A	9569
513	7590	10/06/2004		EXAMINER	
WENDEROTH, LIND & PONACK, L.L.P. 2033 K STREET N. W. SUITE 800				MOORE, WILLIAM W	
				ART UNIT	PAPER NUMBER
WASHIN	WASHINGTON, DC 20006-1021			1652	
				DATE MAILED: 10/06/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Summary	10/089,040	UMEZAWA ET AL.					
	Examiner	Art Unit					
The MAILING DATE of this communicati	William W. Moore	th the correspondence of decay					
1 Silver is itspriy							
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communica - If the period for reply specified above is less than thirty (30) day - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, b Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ITON. CFR 1.136(a). In no event, however, may a retition. /s, a reply within the statutory minimum of thirty, / period will apply and will expire SIX (6) MONT	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication.					
Status							
1) Responsive to communication(s) filed on)						
	This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-11</u> is/are pending in the applic	eation						
4a) Of the above claim(s) is/are with							
5) Claim(s) is/are allowed.	and the second s						
6)⊠ Claim(s) <u>1-11</u> is/are rejected.							
	7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction a	and/or election requirement.						
Application Papers							
9)☐ The specification is objected to by the Exa	miner						
10) The drawing(s) filed on is/are: a)	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to	o the drawing(s) be held in abeyance	See 37 CED 1 95(a)					
Replacement drawing sheet(s) including the co	orrection is required if the drawing(s)	is objected to See 37 CER 1 121(d)					
11)☐ The oath or declaration is objected to by th	ne Examiner. Note the attached (Office Action or form PTO-152					
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for for	rojan priority under 25 LLO O . o .	40()()					
a)⊠ All b)□ Some * c)□ None of:	eigh phonty under 35 U.S.C. § 1	19(a)-(d) or (f).					
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority docum	nents have been received in Ann	lication No					
3. Copies of the certified copies of the	priority documents have been re-	ceived in this National Stage					
application from the International Bu	reau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a	list of the certified copies not red	ceived.					
Attachment(s)							
1) Notice of References Cited (PTO-892)	<u> </u>						
Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date							
Information Disclosure Statement(s) (PTO-1449 or PTO/SB Paper No(s)/Mail Date	√08) 5) ☐ Notice of Inform	nal Patent Application (PTO-152)					
S Patent and Trademark Office	6) Other:						

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Application/Control Number: 10/089,040

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DETAILED ACTION

Response to Amendment

Applicant's preliminary Amendment filed April 16, 2004, has been entered, perfecting a claim to priority under 35 U.S.C. §§ 119(a)-(d) and correcting obvious errors in paragraphs at pages 7, 9 and 12 of the specification as well as amending claims 4-6, 8, 10 and 11 to remove improper multiple dependencies. Claims 1-11 are pending and examined herein.

Specification

The disclosure is objected to because of the following informalities: 35 U.S.C. § 112, first paragraph, requires the specification to be written in "full, clear, concise, and exact terms." The specification is replete with terms which are not clear, concise and exact. The specification should be revised carefully in order to comply with 35 U.S.C. § 112, first paragraph. Examples of some unclear, inexact or verbose terms used in the specification are: None among the second and third paragraphs at page 5, the second and third full paragraphs at page 10, the first two paragraphs at page 11, the paragraph spanning pages 13 and 14 and the following paragraph at page 14, provide any structural basis for determination of the orientation of the amino acid sequences in any component of a "probe". A paragraph spanning pages 11-12 erroneously suggests that endonucleases associated with inteins somehow facilitate "automatic . . . excision". The term "m125" appearing at lines 15 and 20 of page 17 is not explained. The second paragraph at page 18 does not provide any structural basis for determination of the orientation of the nucleic acid components of a plasmid the "covers" a "VDE" region. It is not clear the disclosure provides a basis for claims defining the structural relationships of components of "probes" of the pending claims 1-9 required for practice of methods of claims 10 and 11. Correction or clarification is required.

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Claim Objections

Claim 11 is objected to because of the following informalities: Use of the present tense of the verb "to link" at the close of line 2 of the claim is grammatically incorrect. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. § 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-11 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1-3 are indefinite in failing to describe any structural relationship, or orientation, for components of a "probe" so that the public and the artisan seeking to determine the metes and bounds of the intended subject matter can recognize the structure of the "probe" or the organization of its components. It is not clear, for instance, whether or not Applicant intends that separate portions of a split intein, or two separate and integral inteins, are to be comprised in a "probe". Claims 4-11 are included in this rejection because they depend from claims 1 and 2 but fail to resolve the ambiguities of the claims from which they depend. Claim 4 is independently indefinite because it erroneously recites, "the intein is an endonuclease derived from yeast VMA", misstating the intended subject matter where the *S. cerevisiae* VMA intein is not an endonuclease; instead, the yeast VMA intein comprises an endonuclease domain Applicant removed in forming two "split" inteins according to the specification.

Claim 10 is independently indefinite because the method it describes is incomplete because "making" a "probe a" and a "probe b" "coexist in a system" has no clear relationship with the purpose stated in the claim preamble, "analyzing protein-protein interaction". Claim 11 is included in this rejection of claim 10 because it fails to resolve the ambiguities of the claim from which it depends.

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Conclusion

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William W. Moore whose telephone number is now 571.272.0933. The examiner can normally be reached between 9:00AM and 5:30PM EST. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapura Achutamurthy, can now be reached at 571.272.0928. The fax phone numbers for all communications for the organization where this application or proceeding is assigned remains 703.872.9306. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is now 571.272.1600.

William W. Moore September 30, 2004